

Features

- Shielded construction
- Mn-Zn Ferrite core, High DC saturation Current
- Operating temperature: -40°C to +125°C



Application

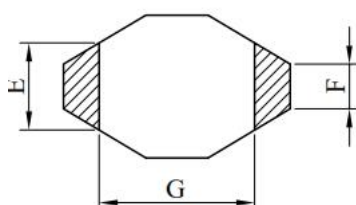
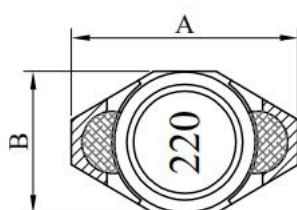
- DC/DC Converter
- Power supply systems

Product Identification

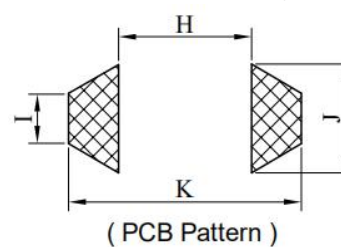
KWD 1608 - 1R2 M
① ② ③ ④

- ① Series name: Wire Wound Power Inductor SMD
- ② Chip Size: 6.5x4.5x2.9mm
- ③ Inductance: 1.2uH
- ④ Tolerance: ±20%

SHAPE AND DIMENSIONS



Recommended Layout:



Unit:mm

A	B	C	E	F	G	H	I	K
6.50 ±0.20	4.40 max.	2.90 ±0.15	2.50 ref.	1.24 ref.	4.45 ref.	4.10 ref.	1.60 ref.	7.00 ref.

SPECIFICATIONS

KWD1608-M Series

Part Number	Inductance (μ H)	Fref (MHz)	RDC max (Ω)	Irms max (A)	Isat typ (A)
KWD1608-1R0M	1.0 $\pm$ 20%	250.00	0.040	3.000	1.200
KWD1608-1R5M	1.5 $\pm$ 20%	125.00	0.045	2.800	0.920
KWD1608-2R2M	2.2 $\pm$ 20%	120.00	0.050	1.800	0.800
KWD1608-3R3M	3.3 $\pm$ 20%	120.00	0.055	1.600	0.620
KWD1608-4R7M	4.7 $\pm$ 20%	105.00	0.060	1.400	0.500
KWD1608-6R8M	6.8 $\pm$ 20%	50.00	0.065	1.200	0.400
KWD1608-100M	10.0 $\pm$ 20%	38.00	0.075	1.000	0.320
KWD1608-150M	15.0 $\pm$ 20%	33.00	0.090	0.800	0.260
KWD1608-220M	22.0 $\pm$ 20%	25.00	0.110	0.700	0.240
KWD1608-330M	33.0 $\pm$ 20%	20.00	0.190	0.600	0.160
KWD1608-470M	47.0 $\pm$ 20%	20.00	0.230	0.500	0.140
KWD1608-680M	68.0 $\pm$ 20%	15.00	0.290	0.400	0.120
KWD1608-101M	100.0 $\pm$ 20%	10.00	0.480	0.300	0.100
KWD1608-151M	150.0 $\pm$ 20%	9.00	0.590	0.260	0.080
KWD1608-221M	220.0 $\pm$ 20%	6.00	0.770	0.220	0.070
KWD1608-331M	330.0 $\pm$ 20%	5.00	1.400	0.200	0.050
KWD1608-471M	470.0 $\pm$ 20%	4.00	1.800	0.190	0.045
KWD1608-681M	680.0 $\pm$ 20%	3.00	2.200	0.180	0.040
KWD1608-102M	1000.0 $\pm$ 20%	2.00	3.400	0.150	0.028
KWD1608-152M	1500.0 $\pm$ 20%	2.00	4.200	0.120	0.024
KWD1608-222M	2200.0 $\pm$ 20%	2.00	8.500	0.100	0.020
KWD1608-332M	3300.0 $\pm$ 20%	1.00	11.000	0.080	0.018
KWD1608-472M	4700.0 $\pm$ 20%	1.00	13.900	0.060	0.014
KWD1608-682M	6800.0 $\pm$ 20%	1.00	25.000	0.040	0.012
KWD1608-103M	10000.0 $\pm$ 20%	0.80	32.800	0.020	0.010

- Electrical specifications at 25°C
- Irms base on Temp. rise 30°C max
- Isat base on $\Delta L/L0A=10\%$ typ